

FLEXIBLE AND ADAPTIVE COMPONENT TECHNOLOGY

The concept of Metronor technology relies on two things – a camera and a handheld Lightpen. One or more cameras observe a known pattern of light sources on the Lightpen, and determine the position and orientation of the pattern in space – in all 6 degrees of freedom.

This component approach makes it easy to adapt our systems to your measurement needs. Cameras can be combined to allow for a larger field of view or higher accuracy, and Lightpen models can be interchanged for a wider range of measurement distances.

A truly flexible and portable solution, so that all your needs can be covered with a single system that is easy to use.



Flexible and robust, the nature of the Metronor systems enables them to be applied to a multitude of different applications. The systems are considered especially valuable when used for large measurement volumes, to optimize processes and in challenging environments.

ABOUT METRONOR

Metronor is a high technology company headquartered just outside Oslo, Norway, with subsidiaries in the US, Germany and China, globally supporting partners and customers.

Based on in-house innovation and research, Metronor has since 1989 developed a range of electro-optical portable coordinate measuring systems that have become popular among leading manufacturers worldwide.

Metronor's management system is certified to ISO 9001 and complies with ISO 14001.



For more information, please visit our website
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Presenting
Industrial Profile



PIPES AND FLANGES

We are uniquely qualified to measure pipes and flanges. Our systems can measure in confined spaces, bad light situations and rough environments. Extreme temperatures and dust or dirt in the air, as is found in ship or machine repair centers, do not influence our measurements.

With our solution you can quickly create CAD models of pipes that need replacing or generate new pipe models of fitted pipes that connect two open flanges. In under 5 minutes you can reverse engineer the geometry you need and send it to the shop floor. Simple, fast and with automatic report generation to eliminate error sources.

An integral component of our solution for pipes and flanges is the unique TeZetCAD piping software from TeZet AG in Switzerland.



STEEL FABRICATIONS

Metronor measurement systems can be used for large welded parts even during production. You can check the dimensions and orientation of individual areas and parts of the welded structure to ensure that they are aligned correctly before continuing to the next part. You can also identify and correct deviations immediately during the production process and do not have to wait until the end of the process – when it's too late to correct.

For physically marking specific points on your parts, we provide a special probe tip, a PunchProbe. Our system can guide you to this specific point by tracking the Lightpen - let's say this point is the middle of a circle that you need to cut into the metal sheet. Once you have reached the 3D coordinate of that point, you only need to push onto the probe and you have created the mark to guide your cutting crew.

CASTINGS AND FORGINGS



Another application for our systems is the testing of incoming goods and casting verification. Once you put effort into machining your part, you want to be sure that production will not be interrupted because the CNC machine drilled into air or there is too much material. Scrap should be avoided at any cost.

We can give you this guarantee by measuring points over the whole part and then calculating a Maximum Material Fit (MMC) against the CAD model. Then we can tell with one mouse click exactly in which orientation your part has to lie in order to give you the perfect product.

This way of working makes also traditional scribing stations redundant, giving you more space on the shop floor for new machinery and saving manpower for important tasks.

